

The established world leader

With more than 12 million units installed worldwide, Otis is established as the world's leading company in escalator and elevator transportation.

It pioneered the first safety elevator and, nearly 100 years ago, introduced the world's first escalator. (The word 'escalator' was an Otis trademark until it became a generic term.)

Today, Otis has major escalator manufacturing centres operating out of different continents with the world's largest production centre at Stadthagen in Germany.

Pioneering safety measures and ecological initiatives

Substantial and on-going investment in research and development maintains Otis' position as market leader. Indeed many of the technological and safety advances adopted by the industry have been introduced by Otis.

In the same way, Otis is keenly sensitive to ecological concerns and pursues a steadfast and caring policy towards the environment. Steps are continually being taken to make our products more and more environmentally friendly both in terms of materials used and energy consumed.

Accent on service

With the world's largest network of branch offices and service centres, Otis is able to offer an unrivalled service operation. Sheer scale of operation means a faster response, superior availability and highly trained in-house engineers whose expertise is supported by state-of-the-art technology.

At Otis, emphasis is not just on producing a quality product but on a quality product that is totally oriented towards you, the customer.

OTIS

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Otis 506 NCE

**A step
by step
account**

OTIS

APPLICATIONS

It's a modular design that makes the 506 NCE so versatile.

SHOPPING CENTRES



OFFICES



EXHIBITION CENTRES

The flexibility of the new 506 NCE can be attributed to one factor: its modular concept.

So while the escalator benefits from all the economies of volume production, it can be assembled to your individual specification - both as regards its engineering characteristics and its aesthetics. Be that for retail, leisure, office or other applications.

Engineered to your requirements

Depending on application, for instance, the step width can obviously vary. So, too, can the rise, the incline and the escalator arrangement.

Then there are the host of aesthetic options which allow each escalator to harmonize with the building's interior design. And various lighting possibilities which can fulfil both aesthetic and safety functions.

Establishing our credentials

The modular approach is the result of customer surveys conducted over a number of years. From the feedback, the new Otis NCE was conceived.

The policy of working closely with you has evolved since we built the first escalator nearly one hundred years ago. (Incidentally, the word escalator was an Otis trademark until it became a generic term.) And today far more escalators have been installed by Otis than by any other manufacturer.

The result of such an output is an unrivalled experience and expertise. Factors which have helped build up trust in our company and confidence in our products.

DEPARTMENT STORES HOSPITALS HOTELS

PARTNERSHIP

The most successful installation is always achieved by working in close cooperation.



1 Defining your requirements and assessing aesthetic and engineering options is the first and vital step.

2 A dedicated team plans and implements each project.

3 Advanced manufacturing and assembly systems ensure unsurpassed performance.

4, 5 Installation is planned and executed with practised precision - and often overnight for minimal disruption.

6 Our goal is your complete satisfaction at handover stage.

Defining the plan

The key to a smooth and successful escalator installation is planning. So from the very outset Otis dedicate a team of specialists to plan and implement a project.

Defining the specification is the first imperative and this involves a rigorous analysis of expectations - taking into account all the traffic, technical and aesthetic considerations.

Considerations such as step width, incline, positioning and the manifold building interfaces. Details such as whether there are 2 or 3 flat steps at an embarkation point. Whether there are criss-cross, parallel or scissor arrangements.

An interchange of questions and ideas provides the route for the ideal escalator specification. And it is this spirit of partnership that enables us to work fast and efficiently and, most importantly, to your complete satisfaction.

Implementing the solution

Equally critical is the actual installation itself.

At Otis, we prefer to deliver an escalator in one piece, tested and assembled, so the installation is fast, safe and clean.

Once installed, a rigorous maintenance programme is then put into place. Indeed our maintenance programmes are generally recognized as the industry standard.

They form part of a strategic approach designed to keep your escalator - hence your building - running efficiently. An approach, moreover, on which a long-term partnership is ultimately established.

SAFETY

Because safety is a priority, we always put it first.

Low friction handrail movement is obtained through a closed loop polymer-lined handrail guiding system.

The gap between the step and skirting is less than that required by all global codes.

The rigidity of the safety glass balustrade is due to its thickness (10mm) and to the continuous glass support profile.

Offering low friction and scratch-resistance, the GUARDIAN™ skirt panel also provides lifetime durability.

Step rigidity and safety is assured through the one-piece die-cast aluminium construction and the full-width axle support.

Tapered deflectors minimize the risk of objects becoming trapped in the handrail entry box. The box is certified to the exacting standards of the TÜV Authority and exceeds world-wide codes.

A problem can be quickly identified and rectified by means of the display screen which is incorporated in the control box. Housed also are a stop button and key-switch.

A more comfortable grip is achieved with the ergonomically designed handrail.

A tradition of innovation

At Otis, research into safety is an on-going process with new safety measures continually being introduced. Many, like the one-piece, die-cast aluminium step, the cleated step riser and the balustrade extension (newel) have been adopted by the industry as a whole.

The result, today, is that the new 506 NCE is probably the safest escalator yet designed.

Pioneering new measures

Since sensitive safety areas are at entry and exit, two key initiatives have been taken: firstly, there is the unique newel design which allows passengers to take hold of the rail well before moving onto the step; secondly, a tapered handrail entry box which incorporates deflectors to minimize the risk of objects becoming trapped.

Research into new materials and design technology has also pioneered breakthroughs such as the GUARDIAN™ skirt panel which have become renowned within the industry.

Safety that's built in

Precise synchronisation between handrail and step speeds assures a safe ride. Further safety is achieved as a result of the constant minimal gap between the skirt and the step and also because of the strength of the step, step-chain and step axle.

The implementation of such measures means the 506 NCE not only meets the safety codes but in most respects greatly exceeds them.

It's the vast number of design combinations that allow the 506 NCE to be so individual.



The traffic flow light has an aesthetic value but also enables anticipation of escalator direction which is appreciated particularly by the elderly.

A well-designed escalator is one that can effortlessly adapt itself to a building's interior. This firstly calls for an elegant profile and secondly an array of finishes and lighting options from which an architect can conceive a unit which is in perfect harmony with the interior decor.

The elegant newel

What perhaps first catches the eye with the 506 NCE is the elongated newel. Unique to Otis, it both renders the escalator's form more elegant whilst also providing extra passenger safety. At its base, the handrail entry box complements the design shape of the newel and complements the finish of the decking.

The handrails themselves have been redesigned and have an attractive sheen finish. What's more they're more durable and more scratch-resistant than conventional handrails.



Balustrades and trusses

Balustrades are in clear glass with smoked, bronze and green as options. Exterior truss claddings are available in a wide range of finishes such as mirror, stainless steel and marble so as to be able to complement interior decors.

All exposed applied finishes use a non-toxic powder coating technique which is both environmentally friendly and extremely durable. Moreover, with their reduced power consumption and being 90% recyclable, Otis escalators have little impact on the environment.

Light attraction

In itself the movement of an escalator acts as a focal point in a building but what also attracts attention is lighting. Continuous or intermittent skirt panel lighting is optional. And there is also the possibility of understep lighting at embarkation and disembarkation points which discreetly alerts passengers to the arrival or the levelling of the steps.

What's more, a traffic direction light can be housed on the exterior decking and is a useful aid for the riding public - especially the elderly.

It is this dual role, in fact, of combining the aesthetic with the functional that demonstrates the thinking behind the design of the 506 NCE.

An approach that also embodies the promise that an escalator design should never constrain but always inspire.



Handrail entry boxes and deckings are available in various finishes to match a building's interior decor.



New bright handrails with a lacquered-effect finish are available in any specified colour.



Skirt lighting is available in continuous (above) or intermittent (left) forms.

The balustrade is available in two heights at landings.

Advanced manufacturing procedures ensure outstanding product quality.



How reliably an escalator performs, depends on how well an escalator is built.

QUALITY



Comfort is enhanced with the new noise and vibration testing chamber.

Comfort and reliability are inextricably linked to the quality of components and the expertise of their assembly.

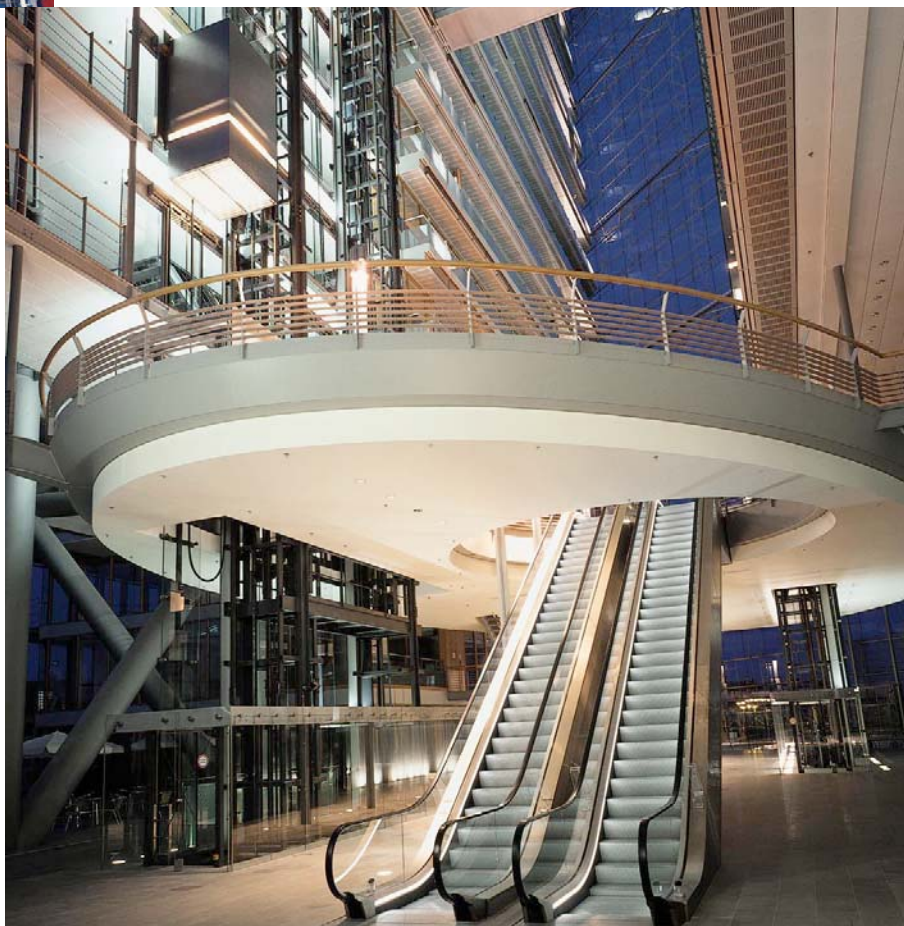
In both respects we set ourselves uncompromising standards.

Comfort is directly related to balustrade rigidity, handrail ergonomics and the liaison between step and handrail movement. Every step is measured and rigorous assembly controls are implemented which compare each operation against a strict tolerance level. What's more each stage has to be approved and signed off by a quality control supervisor. The result is a fully synchronised movement which ensures maximum safety and comfort.

Engineered comfort

Extra rigidity is also provided by the glass balustrade holding support. Where other supports are fixed by intermediate clamps, the support of the 506 NCE is continuous.

Friction and wear is minimal due to the closed loop polymer handrail guidance system and the handrail drive system. This eliminates the need for new rollers and provides an exceptionally smooth and quiet ride.



Noise and vibration levels are then measured in a testing chamber. The test is one of a number of controls that are particular to Otis and in their stringency far exceed the codes.

Reliability through 'Passport'

Fundamental to our reliability programme is a system known as 'Passport'. Again, it is an initiative unique to Otis and establishes strict checkpoints from planning and development through to manufacture and eventual delivery to your site.

Specifically, it means the product has to be unreservedly approved at each checkpoint before it can proceed to the next stage. And, importantly, it involves both front-line and senior levels of Otis management.

'Passport' acts as a constant reminder that quality is paramount. It is a linchpin in our quality assurance strategy and a commitment by which reliability is assured.

Commitment to the future

Important to our long term strategy as regards quality are our Product Improvement Centres. Their role, through the constant pooling of information, is to strive to refine our products.

It's a policy that looks to the future and a policy from which all Otis escalators around the world, irrespective of age or individual history, benefit - both in terms of component improvements and system advances.